

Date: Fri, 14 Oct 94 20:09:18 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: List  
Subject: Info-Hams Digest V94 #1124  
To: Info-Hams

Info-Hams Digest                      Fri, 14 Oct 94                      Volume 94 : Issue 1124

Today's Topics:

ARRL And Gay Hams Settle Complaint  
    Duplexer Theory  
    Finding a ground in a old House  
    Heathkit H-89's  
    Internet Callbook Servers  
    Kindness and ham radio  
    orbs\$287.1of2.amsat  
    orbs\$287.2l.amsat  
What is "Amateur Radio"? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 14 Oct 1994 12:36:09 -0600  
From: rdavis@nyx10.cs.du.edu (Robert Davis)  
Subject: ARRL And Gay Hams Settle Complaint

alexm@intrepid.UUCP (Mike Alexander X7908) writes:

>I seem to remember this same posting coming up 2 previous times over the  
>last 4 years and the reaction is the same. Do we have a new group of pe  
ple  
>on this everytime the posting appears? I seem to recall the previous 2  
imes  
>that it was found to be a fake. Is this time any different?  
Yes, it appears to be different.

The evening of Thursday, 13 October 1994, I had a short conversation (in person) with ARRL Midwest Division Director Lew Gordon, K4VX.

He mentioned in passing that ARRL had settled its differences with the Lambda Radio Club. He gave no further information.

--

rdavis@nyx10.cs.du.edu     Robert Davis   Salina, KS  
                                 Amateur Radio K0FPC

-----  
Date: Fri, 14 Oct 1994 19:31:11 +0000  
From: ip@g8sjp.demon.co.uk (Iain Philipps)  
Subject: Duplexer Theory

Don't get all excited, folks! This isn't yet another question about the design and manufacturing of cavity filters. Nope.

What I'm interested in is the theory behind the hybrid ring circuit which one sees published from time to time. The one I'm looking at right now is in the 1989 ARRL Handbook ....

I'm sure that some genius or other out there in NetLand (tm) has the answers to the following questions, and I'd be obliged if they could be shared with me :-)

1.     The coax specified is RG-8; this seems to be directly at odds with everything else one is told about using efficiently shielded cable for duplexer construction. Should I attempt to build one of these, I'd rather use LDF4-50 (mainly because I have a lot of it, and the connectors are 'the right price'. Anything wrong with this as a concept (providing, of course, the correct velocity factor is applied to the length calculations)?
2.     Are the cable lengths between each ring and the TX / RX critical? If so, what should they be (in relative terms)?
3.     Are the cable lengths between each ring and the commoned 'T' connector for the antenna critical? Again, if these are critical, how should one calculate the required length?
4.     What (in relative terms) should be the length for the tuning stubs? And with the next part of this question, you'll begin to get a sense of my lack of understanding of the circuit. Should these be OPEN or SHORT circuit stubs?

5. For a correctly assembled duplexer as described, what TX / RX isolation could be reasonably expected for this design?

Thanks for listening :-)

--

Iain Philipps

-----

Date: Fri, 14 Oct 1994 13:58:50 GMT  
From: k1w4k@thunder.ee.Virginia.EDU (Kenneth Lee Wright)  
Subject: Finding a ground in a old House

HI

I am a new ham and I am trying to  
find a ground in an old house I am renting.

The outlets have only 2 wires going to them.  
The water pipes are part PVC and part copper.

What I really want to know is there a way to  
test the pipes and find one of them that is  
grounded.

Thanks  
Kenneth Wright KD4WNS  
k1w4k@virginia.edu

PS

Could some one please mail me the answers because  
I don't always have the time to read news.

--

Thanks  
Kenneth L. Wright  
k1w4k@virginia.edu  
Masters Student EE @ UVa  
CSIC SMC project

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Date: Fri, 14 Oct 1994 19:50:57 GMT  
From: donh@cup.hp.com (Don Hay)  
Subject: Heathkit H-89's

I have TWO Heathkit H-89 (factory built) computers. These are Z80 based machines built into a 'smart' 25 line addressable terminal. These are 1980 vintage, are compatible only with themselves! Both have built-in

floppy drives, no hard-drives, run on a DOS system. If nothing else, the terminals can be used to logon to other machines!

If you are into HAM radio, these would make an excellent choice for a dedicated PACKET host! XYL says these MUST GO! Make an offer!

Don H.  
408-447-5017  
donh@cup.hp.com  
Cupertino/San Jose, California.

-----  
Date: 14 Oct 1994 16:13:57 GMT  
From: fuat@tintin.cc.columbia.edu (Fuat C. Baran)  
Subject: Internet Callbook Servers

In article <37gn60\$t2b@hopper.acm.org>, <smithson@ACM.ORG> wrote:  
>I saw a note on this group a while ago listing internet callbook servers.  
>Anyone know where I might find that?

If you have access to World-Wide Web browsers, such as Mosaic, look at:

<http://www.cc.columbia.edu/~fuat/cuarc/>

At the bottom, choose "Callsign Servers" and you'll get a list of the various ones I know about. Regular telnet ones such as callsign.cs.buffalo.edu's port 2000 as well as the latest QRZ CD-ROM from QRZ available via forms interface and the UK callbook from mcc.ac.uk. Also a forms interface to the Hams on Usenet listing.

You can also go direct to:

<http://www.cc.columbia.edu/~fuat/cuarc/callsign-servers.html>

--Fuat, N2YGN

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212-662-6442 (Fax)  
N2YGN

-----  
Date: Fri, 14 Oct 1994 13:23:51 -0400  
From: wa4zos@wa4zos.lib.muohio.edu (Bob Junke)

Subject: Kindness and ham radio

In article <1994Oct14.021924.26491@egreen.wednet.edu>,  
jmollan@egreen.iclnet.org (John Mollan - Harm) wrote:

```
> There was a time when this was a small world and everyone waved as the
> passed each other.
>
> There was a time in the day of the crystal-controlled vhf transceiver, (less
> than 20 years ago) when a "monitoring" on a repeater would get a reply in
> nearly every town and city.
>
> In 1994 we have astounding technological devices that will transmit and
> receive anywhere in modes that were not imagined in the 70's.
>
> At the same time as our gear has become sophisticated, we have regressed
> in our friendliness and common courtesy.
>
> On a coast-to-coast trip decades ago, I would seldom be out of touch,
> even when using a 10 channel 2 meter rig. Now the same trip using a
> fancy, multi-everything rig raises few responses, even in busy areas like
> Chicago and Baltimore.
```

Just a mere 6 years ago, saying "monitoring" would usually get a response. Now, it usually doesn't. I live in Ohio, and there exists a wide area repeater "system" that spans from Cleveland on down into Kentucky and over into Indiana. A few times, whenever I get a chance to be in my car for more than a couple of minutes, I will announce that I am "monitoring". I have yet to get a response.  
What is it all coming to?

--

Tnx & 73,  
Bob

```
+-----+
| Bob Junke,                                     |
| Miami University                             |
| Oxford, Ohio 45056                           |
| (513)529-2351                               Ham Call: WA4ZOS |
|                                     E-mail: wa4zos@wa4zos.lib.muohio.edu |
|                                     E-mail: junkere@muohio.edu |
/ )      HAM PBBS: WA4ZOS @ N8JSF.#CIN.OH.USA.NOAM ( \
/ )      http://miamilink.lib.muohio.edu/bobj.html ( \
_ ( +-----+ ) ) />
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Date: 14 Oct 94 14:13:00 GMT  
From: ray.hoad@drig.COM (Ray Hoad)  
Subject: orbs\$287.1of2.amsat

SB KEPS @ AMSAT    \$ORBS-287.0  
Orbital Elements    287.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES  
FROM WA5QGD FORT WORTH,TX October 14, 1994  
BID: \$ORBS-287.0  
TO ALL RADIO AMATEURS BT

Satellite: AO-10  
Catalog number: 14129  
Epoch time:        94274.43486862  
Element set:        315  
Inclination:        26.8409 deg  
RA of node:         305.1981 deg  
Eccentricity:       0.6029094  
Arg of perigee:     215.5270 deg  
Mean anomaly:       82.9344 deg  
Mean motion:        2.05880028 rev/day  
Decay rate:          9.0e-08 rev/day^2  
Epoch rev:          8497  
Checksum:            314

Satellite: UO-11  
Catalog number: 14781  
Epoch time:        94284.55050201  
Element set:        745  
Inclination:        97.7843 deg  
RA of node:         293.8226 deg  
Eccentricity:       0.0010711  
Arg of perigee:     258.5688 deg  
Mean anomaly:       101.4311 deg  
Mean motion:        14.69252752 rev/day  
Decay rate:          1.39e-06 rev/day^2  
Epoch rev:          56739  
Checksum:            313

Satellite: RS-10/11  
Catalog number: 18129  
Epoch time:        94284.06842816

Element set: 972  
Inclination: 82.9251 deg  
RA of node: 243.1794 deg  
Eccentricity: 0.0012999  
Arg of perigee: 65.4275 deg  
Mean anomaly: 294.8211 deg  
Mean motion: 13.72342218 rev/day  
Decay rate: 2.3e-07 rev/day^2  
Epoch rev: 36580  
Checksum: 318

Satellite: A0-13

Catalog number: 19216  
Epoch time: 94284.59421807  
Element set: 981  
Inclination: 57.7136 deg  
RA of node: 226.3304 deg  
Eccentricity: 0.7236688  
Arg of perigee: 352.3018 deg  
Mean anomaly: 0.7184 deg  
Mean motion: 2.09719137 rev/day  
Decay rate: 9.9e-07 rev/day^2  
Epoch rev: 4845  
Checksum: 324

Satellite: F0-20

Catalog number: 20480  
Epoch time: 94284.85344646  
Element set: 739  
Inclination: 99.0568 deg  
RA of node: 54.7296 deg  
Eccentricity: 0.0541259  
Arg of perigee: 75.2624 deg  
Mean anomaly: 290.7810 deg  
Mean motion: 12.83227371 rev/day  
Decay rate: -3.0e-07 rev/day^2  
Epoch rev: 21909  
Checksum: 323

Satellite: A0-21

Catalog number: 21087  
Epoch time: 94285.81164397  
Element set: 528  
Inclination: 82.9366 deg  
RA of node: 55.6506 deg  
Eccentricity: 0.0036285  
Arg of perigee: 114.7470 deg  
Mean anomaly: 245.7469 deg

Mean motion: 13.74545983 rev/day  
Decay rate: 9.4e-07 rev/day^2  
Epoch rev: 18574  
Checksum: 347

Satellite: RS-12/13  
Catalog number: 21089  
Epoch time: 94284.16533842  
Element set: 744  
Inclination: 82.9200 deg  
RA of node: 285.4371 deg  
Eccentricity: 0.0030063  
Arg of perigee: 143.3255 deg  
Mean anomaly: 216.9900 deg  
Mean motion: 13.74047285 rev/day  
Decay rate: 1.5e-07 rev/day^2  
Epoch rev: 18457  
Checksum: 297

Satellite: ARSENE  
Catalog number: 22654  
Epoch time: 94278.90721955  
Element set: 291  
Inclination: 2.0802 deg  
RA of node: 94.2592 deg  
Eccentricity: 0.2911798  
Arg of perigee: 193.1780 deg  
Mean anomaly: 157.9888 deg  
Mean motion: 1.42203095 rev/day  
Decay rate: -8.7e-07 rev/day^2  
Epoch rev: 277  
Checksum: 322

/EX

SB KEPS @ AMSAT \$ORBS-287.D  
Orbital Elements 287.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS  
FROM WA5QGD FORT WORTH, TX October 14, 1994  
BID: \$ORBS-287.D  
TO ALL RADIO AMATEURS BT

Satellite: U0-14  
Catalog number: 20437  
Epoch time: 94284.24734306  
Element set: 44  
Inclination: 98.5858 deg  
RA of node: 7.4211 deg



Eccentricity: 0.0010422  
Arg of perigee: 207.9287 deg  
Mean anomaly: 152.1334 deg  
Mean motion: 14.29857747 rev/day  
Decay rate: 3.3e-07 rev/day^2  
Epoch rev: 24617  
Checksum: 297

Satellite: A0-16

Catalog number: 20439  
Epoch time: 94284.71838348  
Element set: 842  
Inclination: 98.5951 deg  
RA of node: 9.2464 deg  
Eccentricity: 0.0010677  
Arg of perigee: 207.7087 deg  
Mean anomaly: 152.3532 deg  
Mean motion: 14.29911794 rev/day  
Decay rate: 4.6e-07 rev/day^2  
Epoch rev: 24625  
Checksum: 330

Satellite: D0-17

Catalog number: 20440  
Epoch time: 94284.73130830  
Element set: 843  
Inclination: 98.5957 deg  
RA of node: 9.6221 deg  
Eccentricity: 0.0010935  
Arg of perigee: 205.9747 deg  
Mean anomaly: 154.0880 deg  
Mean motion: 14.30051780 rev/day  
Decay rate: 4.5e-07 rev/day^2  
Epoch rev: 24627  
Checksum: 296

Satellite: W0-18

Catalog number: 20441  
Epoch time: 94284.77872173  
Element set: 846  
Inclination: 98.5954 deg  
RA of node: 9.6613 deg  
Eccentricity: 0.0011367  
Arg of perigee: 207.0179 deg  
Mean anomaly: 153.0411 deg  
Mean motion: 14.30025442 rev/day  
Decay rate: 4.1e-07 rev/day^2  
Epoch rev: 24628

Checksum: 294

Satellite: L0-19

Catalog number: 20442

Epoch time: 94284.18928613

Element set: 841

Inclination: 98.5964 deg

RA of node: 9.3666 deg

Eccentricity: 0.0011606

Arg of perigee: 208.4611 deg

Mean anomaly: 151.5940 deg

Mean motion: 14.30123245 rev/day

Decay rate:  $4.6e-07$  rev/day<sup>2</sup>

Epoch rev: 24621

Checksum: 293

Satellite: U0-22

Catalog number: 21575

Epoch time: 94284.21428917

Element set: 548

Inclination: 98.4259 deg

RA of node: 356.3104 deg

Eccentricity: 0.0007324

Arg of perigee: 310.2542 deg

Mean anomaly: 49.8001 deg

Mean motion: 14.36934979 rev/day

Decay rate:  $4.7e-07$  rev/day<sup>2</sup>

Epoch rev: 16974

Checksum: 320

Satellite: K0-23

Catalog number: 22077

Epoch time: 94284.78844457

Element set: 441

Inclination: 66.0824 deg

RA of node: 35.8455 deg

Eccentricity: 0.0015344

Arg of perigee: 259.3353 deg

Mean anomaly: 100.5937 deg

Mean motion: 12.86288007 rev/day

Decay rate:  $-3.7e-07$  rev/day<sup>2</sup>

Epoch rev: 10178

Checksum: 315

Satellite: A0-27

Catalog number: 22825

Epoch time: 94284.64890901

Element set: 340

Inclination: 98.6448 deg  
RA of node: 359.2338 deg  
Eccentricity: 0.0007811  
Arg of perigee: 228.3764 deg  
Mean anomaly: 131.6754 deg  
Mean motion: 14.27636872 rev/day  
Decay rate: 3.8e-07 rev/day^2  
Epoch rev: 5430  
Checksum: 327

Satellite: IO-26

Catalog number: 22826  
Epoch time: 94285.18203164  
Element set: 338  
Inclination: 98.6432 deg  
RA of node: 359.8142 deg  
Eccentricity: 0.0008405  
Arg of perigee: 229.0416 deg  
Mean anomaly: 131.0042 deg  
Mean motion: 14.27741823 rev/day  
Decay rate: 2.7e-07 rev/day^2  
Epoch rev: 5438  
Checksum: 290

Satellite: KO-25

Catalog number: 22830  
Epoch time: 94284.74577107  
Element set: 345  
Inclination: 98.5454 deg  
RA of node: 355.3885 deg  
Eccentricity: 0.0010997  
Arg of perigee: 191.4058 deg  
Mean anomaly: 168.6873 deg  
Mean motion: 14.28066134 rev/day  
Decay rate: 3.6e-07 rev/day^2  
Epoch rev: 5433  
Checksum: 334

Satellite: 22828

Catalog number: 22828  
Epoch time: 94284.74511794  
Element set: 317  
Inclination: 98.6404 deg  
RA of node: 359.4037 deg  
Eccentricity: 0.0009437  
Arg of perigee: 213.8387 deg  
Mean anomaly: 146.2189 deg  
Mean motion: 14.28069039 rev/day

Decay rate: 4.1e-07 rev/day^2  
Epoch rev: 2241  
Checksum: 334

/EX

-----  
Date: 14 Oct 94 14:21:00 GMT  
From: ray.hoad@drig.COM (Ray Hoad)  
Subject: orbs\$287.21.amsat

SB KEPS @ AMSAT \$ORBS-287.N  
2Line Orbital Elements 287.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT  
FROM WA5QGD FORT WORTH,TX October 14, 1994  
BID: \$ORBS-287.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83058B 94274.43486862 .000000009 00000-0 10000-3 0 3153  
2 14129 26.8409 305.1981 6029094 215.5270 82.9344 2.05880028 84978

U0-11

1 14781U 84021B 94284.55050201 .00000139 00000-0 31409-4 0 7454  
2 14781 97.7843 293.8226 0010711 258.5688 101.4311 14.69252752567399

RS-10/11

1 18129U 87054A 94284.06842816 .000000023 00000-0 84473-5 0 9724  
2 18129 82.9251 243.1794 0012999 65.4275 294.8211 13.72342218365801

A0-13

1 19216U 88051B 94284.59421807 .000000099 00000-0 10000-4 0 9818  
2 19216 57.7136 226.3304 7236688 352.3018 0.7184 2.09719137 48452

F0-20

1 20480U 90013C 94284.85344646 -.000000030 00000-0 -28342-5 0 7395  
2 20480 99.0568 54.7296 0541259 75.2624 290.7810 12.83227371219092

A0-21

1 21087U 91006A 94285.81164397 .000000094 00000-0 82657-4 0 5284  
2 21087 82.9366 55.6506 0036285 114.7470 245.7469 13.74545983185740

RS-12/13

1 21089U 91007A 94284.16533842 .000000015 00000-0 -63325-7 0 7447  
2 21089 82.9200 285.4371 0030063 143.3255 216.9900 13.74047285184571

## ARSENE

1 22654U 93031B 94278.90721955 -.000000087 00000-0 00000 0 0 2913  
2 22654 2.0802 94.2592 2911798 193.1780 157.9888 1.42203095 2778

## UO-14

1 20437U 90005B 94284.24734306 .000000033 00000-0 29769-4 0 440  
2 20437 98.5858 7.4211 0010422 207.9287 152.1334 14.29857747246173

## AO-16

1 20439U 90005D 94284.71838348 .000000046 00000-0 34677-4 0 8429  
2 20439 98.5951 9.2464 0010677 207.7087 152.3532 14.29911794246251

## DO-17

1 20440U 90005E 94284.73130830 .000000045 00000-0 34481-4 0 8437  
2 20440 98.5957 9.6221 0010935 205.9747 154.0880 14.30051780246273

## WO-18

1 20441U 90005F 94284.77872173 .000000041 00000-0 32995-4 0 8462  
2 20441 98.5954 9.6613 0011367 207.0179 153.0411 14.30025442246284

## LO-19

1 20442U 90005G 94284.18928613 .000000046 00000-0 34878-4 0 8411  
2 20442 98.5964 9.3666 0011606 208.4611 151.5940 14.30123245246216

## UO-22

1 21575U 91050B 94284.21428917 .000000047 00000-0 30357-4 0 5489  
2 21575 98.4259 356.3104 0007324 310.2542 49.8001 14.36934979169748

## KO-23

1 22077U 92052B 94284.78844457 -.000000037 00000-0 10000-3 0 4417  
2 22077 66.0824 35.8455 0015344 259.3353 100.5937 12.86288007101787

## AO-27

1 22825U 93061C 94284.64890901 .000000038 00000-0 33373-4 0 3406  
2 22825 98.6448 359.2338 0007811 228.3764 131.6754 14.27636872 54307

## IO-26

1 22826U 93061D 94285.18203164 .000000027 00000-0 28712-4 0 3382  
2 22826 98.6432 359.8142 0008405 229.0416 131.0042 14.27741823 54387

## KO-25

1 22830U 93061H 94284.74577107 .000000036 00000-0 32019-4 0 3452  
2 22830 98.5454 355.3885 0010997 191.4058 168.6873 14.28066134 54332

## 22828

1 22828U 93061F 94284.74511794 .000000041 00000-0 34065-4 0 3177  
2 22828 98.6404 359.4037 0009437 213.8387 146.2189 14.28069039 22413

## NOAA-9

1 15427U 84123A 94284.88576792 .000000123 00000-0 89380-4 0 9860  
2 15427 99.0375 336.6630 0014116 250.2030 109.7620 14.13649643506744

## NOAA-10

1 16969U 86073A 94284.93376744 .000000037 00000-0 33861-4 0 8876  
2 16969 98.5095 290.3801 0013658 352.9755 7.1228 14.24908446419120

## MET-2/17

1 18820U 88005A 94284.21200952 .000000083 00000-0 60754-4 0 4316  
2 18820 82.5445 176.2981 0015257 212.7178 147.3040 13.84723397338416

## MET-3/2

1 19336U 88064A 94284.40015917 .000000051 00000-0 10000-3 0 3402  
2 19336 82.5363 241.4341 0017398 337.5373 22.4984 13.16969310298556

NOAA-11

1 19531U 88089A 94284.97826317 -.000000008 00000-0 20701-4 0 8039  
 2 19531 99.1821 276.8113 0011716 161.3680 198.7920 14.13019041311634

MET-2/18

1 19851U 89018A 94283.35733987 .000000017 00000-0 24910-5 0 3411  
 2 19851 82.5181 52.0914 0012874 265.2072 94.7617 13.84372856283620

MET-3/3

1 20305U 89086A 94285.20301720 .000000044 00000-0 10000-3 0 1718  
 2 20305 82.5547 189.0736 0007152 16.9324 343.2096 13.04418508238157

MET-2/19

1 20670U 90057A 94284.61121525 .000000024 00000-0 85524-5 0 8428  
 2 20670 82.5454 116.0101 0015107 175.9618 184.1658 13.84180741216724

FY-1/2

1 20788U 90081A 94289.49561892 -.000000041 00000-0 64550-6 0 1397  
 2 20788 98.8243 305.7168 0015800 41.5869 318.6047 14.01323187210695

MET-2/20

1 20826U 90086A 94284.30536543 .000000019 00000-0 40247-5 0 8516  
 2 20826 82.5234 53.5856 0014813 81.6659 278.6178 13.83589841203811

MET-3/4

1 21232U 91030A 94284.52778390 .000000050 00000-0 10000-3 0 7493  
 2 21232 82.5352 87.3454 0011828 257.6384 102.3405 13.16464652166661

NOAA-12

1 21263U 91032A 94284.96122984 .000000096 00000-0 62454-4 0 2226  
 2 21263 98.6099 310.1215 0011902 259.1285 100.8552 14.22454383177108

MET-3/5

1 21655U 91056A 94284.38229305 .000000051 00000-0 10000-3 0 7470  
 2 21655 82.5551 34.6747 0011982 267.1362 92.8383 13.16833529151759

MET-2/21

1 22782U 93055A 94284.99032059 .000000012 00000-0 -26931-5 0 3508  
 2 22782 82.5468 113.8885 0021182 260.2664 99.6103 13.83015863 56232

POSAT

1 22829U 93061G 94284.75277065 .000000067 00000-0 44616-4 0 3327  
 2 22829 98.6417 359.4311 0009302 215.2615 144.7948 14.28043993 54337

MIR

1 16609U 86017A 94285.21940732 .00003529 00000-0 53966-4 0 8014  
 2 16609 51.6464 320.7212 0002511 101.7700 258.3573 15.57365968494254

HUBBLE

1 20580U 90037B 94285.85730851 .000000639 00000-0 48428-4 0 5511  
 2 20580 28.4695 200.0833 0006032 236.6663 123.3345 14.90692067 46960

GRO

1 21225U 91027B 94282.82717952 .00003673 00000-0 79228-4 0 1552  
 2 21225 28.4606 156.0432 0003402 72.3932 287.7030 15.41372224 74645

UARS

1 21701U 91063B 94284.87998399 .000000405 00000-0 56362-4 0 6126  
 2 21701 56.9842 51.4324 0004613 101.9328 258.2219 14.96512306168409

/EX

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Date: Fri, 14 Oct 1994 17:25:25 GMT  
From: mike@shien.ist.csuohio.edu (mike mayer)  
Subject: What is "Amateur Radio"?

The FCC gives a more formal definition of the Amateur Radio Service, but you are probably looking for something you can say in front of a group that may never have heard of it and may not have a technical background.

Amateur Radio is a hobby, sometimes even an avocation, involving radio communication between other Amateur Radio enthusiasts. It is called 'Amateur' Radio because the radio communication that takes place cannot be done in exchange for compensation, monetary or otherwise. The purpose of Amateur Radio is simply personal fulfillment, as well as to advance the radio 'art', foster international goodwill, help by volunteering radio communication services during emergencies, increase the numbers of licensed amateur radio operators, and to provide a means of technical advancement in the areas of radio and electronics. That last sentence was a rough interpretation of the FCC charter for amateur radio.

Above all though, it's for the fun of communicating with others.

Mike

--  
^v^v^v^v^v^v^v^v^v^v^v^v^v^v^v^v Catch the WAVE ^v^v^v^v^v^v^v^v^v^v^v^v^v^v^v^v  
Michael Mayer, Senior Technical Support Engineer Amateur Radio KB8RJ0  
Visual Numerics, Inc. 32915 Aurora Rd. Suite 160, Solon OH 44139 USA  
Email: mayer@boulder.vni.com Human: 216-248-4900 Fax: 216-248-2733  
v^v^v^v^v^v^v^v^v^v Good \* Cheap \* Quick (pick any two) ^v^v^v^v^v^v^v^v^v^v

Date: Fri, 14 Oct 1994 13:32:37 -0400  
From: wa4zos@wa4zos.lib.muohio.edu (Bob Junke)  
Subject: What is "Amateur Radio"?

In article <cmatthew.2.0@wpo.uwsuper.edu>, cmatthew@wpo.uwsuper.edu (CHARLES R. MATTHEW) wrote:

```
>      Someone asks you "What is Amateur Radio?", can you give them an answer
> they will understand? Well that's what I have the most trouble with,
> explaining what ham radio is. And now for a speech class I'm giving a speech
> on ham radio. The basis is to explain in lay terms what it is. And I'm
> having trouble once again. So I'm asking you if you could give me your
```

> difinition of "Amateur Radio", any lenght. If you can find it in a book,  
> send that along to. Please send your definitions to:

>  
> (E-Mail Address) cmatthew@wpo.uwsuper.edu  
> (Packet Address) N0XFD@WBOSVA.#NEMN.MN.US.NA

>  
> US Mail N0XFD  
> UWS Box 653  
> Superior, WI 54880

> or just leave a reply here!

>  
> Thanks for your help! Oh I'm a student at U of Wisconsin Superior  
> -73's Charlie N0XFD

- 1) Amateur radio is a hobby.
- 2) Amateur radio is fun.
- 3) Amateur radio is a learning and growing experience.
- 4) Amateur radio is, by its name, \*NOT FOR PROFIT\*.
- 5) Amateur radio fosters good will and service to others.
- 6) Amateur radio promotes brotherhood (or should I say "personhood").
- 7) Amateur radio is continually pioneering into new technology while not forgetting the past.
- 8) Amateur radio is "for me".

--

Tnx & 73,  
Bob

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+-----+
| Bob Junke,                               |
| Miami University                         |
| Oxford, Ohio 45056                      |
| (513)529-2351                           |
|                                         Ham Call: WA4ZOS |
|                                         E-mail: wa4zos@wa4zos.lib.muohio.edu |
|                                         E-mail: junkere@muohio.edu |
/ )      HAM PBBS: WA4ZOS @ N8JSF.#CIN.OH.USA.NOAM ( \
/ )      http://miamilink.lib.muohio.edu/bobj.html ( \
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Date: 14 Oct 94 13:17:06 EDT  
From: landisj@drager.com (Joe Landis - Systems & Network Mgr)



References<001302Z11101994@anon.penet.fi> <37e873\$8es@eugene.convex.com>,  
<roh033.mah48d-121094124321@136.141.220.39>  
Subject: Re: ARRL And Gay Hams Settle Complaint

In article <roh033.mah48d-121094124321@136.141.220.39>, roh033.mah48d@rohmmaas.com  
(John E. Taylor III) writes:

> In article <37e873\$8es@eugene.convex.com>, horak@convex.com (David Horak)  
> wrote:

>

>> >ARRL and LARC met and reached a mutually acceptable solution to  
>> >LARC's discrimination complaint. LARC and ARRL are pleased to  
>> >report that the matter is now settled.

>>

>>

>> So, what was the solution? Did it involve monetary compensation?

>> Are they happy as a LARC now?

>

> It's common for agreements settling disputes like this to contain a clause  
> stating that the terms of the settlement are not to be made public, and  
> that both parties must approve any public statement made by either party  
> about the dispute.

>

> Bottom line, they ain't gonna tell you, 'cause they can't.

Well, did you see the feature in QST a few months back (July maybe?) on the  
LARC Mode S DXpedition to a Caribbean Island? Can't remember which one now.  
Maybe doing the article featuring the club was part of the agreement. They did  
mention the clubs charter in the last paragraph.

Joe - AA3GN

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Joe Landis - Systems and Network Manager - North American Drager - Telford, PA  
landisj@drager.com - Ax25: AA3GN@WA3TSW.#EPA.PA.USA.NOAM - ampr: [44.80.8.153]  
Counting the days til deer season! Politically correct sig not available.

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End of Info-Hams Digest V94 #1124

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